
2001-044898

02_2001

H04B 3/46
H04B 17/02

(71)Applicant : YOKOGAWA ELECTRIC CORP

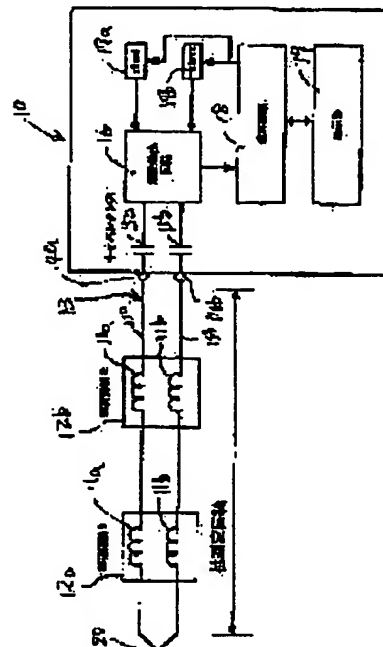
(72)Inventor : YOSHITAKE SATORU
SHIMABARA NORIO

(54) INSTRUMENT FOR MEASURING TRANSMISSION LINE

(57)Abstract

PROBLEM TO BE SOLVED: To correctly detect the number and positions of existing loading coils by detecting the loading coils based on a frequency characteristics, which is set by combining a resonance frequency generated by the loading coils existing in a line to be measured and a line configuration element.

SOLUTION: A transmission line measuring instrument 10 is connected to each of single lines 13a and 13b to constitute a serial circuit, the currents of the prescribed frequencies of oscillators 17a and 17b are supplied to a line 13 to be measured by a current detecting circuit 16 with capacitances 15a and 15b, which constitute a resonance circuit and the resonance frequency of the circuit is detected. An arithmetic circuit 18 calculates the inductance of the line 13 to be measured, based on the obtained resonance frequency by an arithmetic circuit 18, compares it with the inductance per previously set unit loading coil and calculates the number of the loading coils existing in the circuit 13. Then previously set model data is generated, based on the parameter consisting of the respective line lengths and the kind of the single lines 13a and 13b, so that correctness is obtained.



LEGAL STATUS

[Date of request for examination] 04.02.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's withdrawal decision of rejection or application converted registration]

[Date of final disposal for application] 20.07.2004

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]